NC/QC/RI/BMN/BH-05/2017-18/BT5-W1

Date: 02-01-2019

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Providing Drinking Water Facilities In Ward No.13 in Shettyhalli Sub Division }
Ref.: Material testing/W-13/QC/18-19,
Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	97.20	95-100
26.50	---	-
22.40	74.55	60-80
11.20	43.85	40-60
4.75	28.10	25-40
2.36	19.30	15-30
0.600	11.70	8-22
0.075	3.10	0-5

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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Proprietor

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Date: 02-01-2019

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.94 %**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**22.60 %**	Not more than 35.0 %
3.	Water absorption, %	**0.40 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

AE

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಕೆಬ್ಬಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬ್ರಿಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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NC/QC/W-13/2018-19/KN-C1

Date: 05-01-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Providing Drinking Water Facilities In Ward No.13 in Shettyhalli Sub Division }
Ref.: Material testing/W-13/QC/18-19,
Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : ZUARI
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	164 min	Shall not be less than 30 min
2	Final setting time	285 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.74 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.10 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.91 N/Sq mm	Shall not be less than 27 N/Sqmm

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NC/QC/W-13/2018-19/KN-PCC1

Date: 05-01-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Providing Drinking Water Facilities In Ward No.13 in Shettyhalli Sub Division }
Ref.: Material testing/W-13/QC/18-19,
Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	66.35	0 -20	30- 70
10mm	30.80	0 -5	10- 35
4.75mm	3.95	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	100.00	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	97.15	60-95	75-100	85-100	
01.18	69.70	30-70	55-90	75-100	
600.mic	41.90	15-34	35-59	60-79	
300.mic	24.05	5-20	8-30	12-40	
150.mic	5.10	0-10	0-10	0-10	

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NC/QC/W-13/2018-19/KN-C2

Date: 08-01-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Providing Drinking Water Facilities In Ward No.13 in Shettyhalli Sub Division }
Ref.: Material testing/W-13/QC/18-19,
Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : ZUARI
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	178 min	Shall not be less than 30 min
2	Final setting time	256 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.81 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.08 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results	28.71 N/Sq mm	Shall not be less than 27 N/Sqmm

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